## CDC POLIOMYELITIS SURVEILLANCE REPORT NO. 127 SEPTEMBER 20, 1957

U.S. Department of Health, Education and Welfare
Public Health Service Bureau of State Services

COMMUNICABLE DISEASE CENTER
Poliomyelitis Surveillance Unit
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SPECIAL NOTE

Information presented in this report represents a factual summary of Preliminary data regarding poliomyelitis and polio-like diseases reported to CDC from State Health Departments, participating diagnostic and reference laboratories, Epidemic Intelligence Service Officers, National Office of Vital Statistics, and other pertinent sources. It is to be emphasized that these reports contain provisional data intended for the information and administrative use of physicians involved in investigation and control of poliomyelitis and polio-like diseases. Anyone desiring to quote this information is urged to contact the person or persons responsible for the items reported in order that the exact interpretation of the report and the current status of the investigation be obtained.

## This Report Prepared by:

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with assistance from Statistics Section,

Communicable Disease Center

#### SUMMARY

- 1. National incidence of poliomyelitis has remained low, with 282 cases reported for the week ending September 14, following 244 and 276 for the two preceding weeks. Although the proportion reported as paralytic has increased slightly, it remains low compared to 1955 and 1956.
- 2. Outbreaks of nonparalytic aseptic meningitis have been observed in 13 states. ECHO Type 9 has been isolated from seven outbreaks and Coxsackie virus from eight. The widespread outbreak involving an estimated 10,000 persons continues in Milwaukee. Preliminary observations have been reported on 68 cases of a minor febrile illness, 20 with exanthem, occurring in Waupaca, Wisconsin.

### A. CURRENT POLIOMYELITIS MORBIDITY TRENDS

Reports of 282 poliomyelitis cases were received by NOVS for the week ending September 14, following 244 and 276 for the two previous weeks. Although this represents a slight increase in incidence over the past two weeks, this total is considerably below the 397 cases reported for the week ending August 24. For the comparable week of previous years, cases totaled 968 in 1956, 959 in 1947, and 229 in 1942. This year's cumulative total of 4,437 cases may be compared with 10,763 for 1956 and 5,569 for 1947. Figure 1 shows the U.S. incidence by weeks for 1947 and 1952-57.

Of the 282 cases listed last week, a total of 90 was reported as paralytic, compared with 73 and 77 during each of the two preceding weeks. Figure 2 shows the U.S. incidence by paralytic status for the 22nd through the 37th weeks of 1955, 1956 and 1957. The proportion reported as paralytic remains low compared with 1955 and 1956. However, this year over the past 3-4 weeks there has been a gradual increase in the percent reported as paralytic.

Table 1 presents the distribution of total cases by state and region, and of paralytic cases by region, for the past six weeks, with six-week totals for the comparable periods of the previous four years. The largest group of cases, 142, including 42 paralytic, occurred in the North Central region. In Michigan the 43 reports included only seven paralytic. Indiana, however, reported 26 cases, including 15 paralytic, compared with totals of 6 and 4 for the two preceding weeks. This rise in Indiana notifications is partially due to a group of 8 late reports from Fort Wayne; the remaining 16 cases occurred in several different counties.

#### B. ROUTINE POLIOMYELITIS SURVEILLANCE

1. Under-30-day vaccinated cases - During the week ending
September 18, PSU received reports of one paralytic and seven nonparalytic
poliomyelitis cases with onset within 30 days of a polio vaccine inoculation.

Louisiana reported the paralytic case, a seven months old male with onset of facial paralysis following leg inoculation with polio vaccine. There was a 13-day interval from inoculation to onset of symptoms; the vaccine manufacturer and lot number were not reported.

2. Triply-vaccinated cases - During the week ending September 18, a total of 13 paralytic and 60 nonparalytic triply-vaccinated cases was reported to PSU. The paralytic cases are listed in Table 2. Previously listed were 45 triply-vaccinated paralytic cases, bringing the 1957 total to 58. A cumulative 1957 total of 283 nonparalytic cases has been reported in triply-vaccinated individuals.

Paralytic case 3V-82, preliminary data listed in PSU Report No. 126, was dropped from the case listing after additional information indicated transient "paralysis" was due to an insect bite.

3. Vaccine distribution - During the first week in September over three million cc's of polio vaccine were shipped to public agencies and commercial channels. Vaccine inventory totaled almost 18 million cc's on September 6 (Table 3).

### C. ASEPTIC MENINGITIS

To date twenty-three outbreaks of aseptic meningitis have come to the attention of the Polio Surveillance Unit. These are tabulated in Table 4, and located geographically in Figure 3. The largest to date is the Milwaukee, Wisconsin, outbreak of ECHO type 9 where it is estimated that approximately 10,000 persons have been involved. ECHO type 9 has been implicated in six other outbreaks and Coxsackie virus in eight. In four of these both ECHO and Coxsackie viruses have been recovered. Rash has been encountered in six outbreaks and always in connection with ECHO type 9. An interesting outbreak of minor febrile illness and exanthem in Waupaca, Wisconsin is described below; these illnesses simulate many of the milder ECHO-9 illnesses documented in Milwaukee and Minnesota.

## Progress Reports - Wisconsin

## (a) Milwaukee (see PSU #122)

The widespread outbreak of aseptic meningitis due to ECHO 9 virus continues in Milwaukee. Approximately six new cases are being hospitalized per week and thus far 138 individuals have been hospitalized. A conservative estimate of total cases made by Dr. E.R. Krumbiegel, Commissioner of Health, indicates that 10,000 people have been afflicted. ECHO viruses are being isolated from approximately 90% of the cases. Laboratory studies are being jointly undertaken by Dr. A. Sabin of Cincinnati Children's Hospital and

Dr. F. Robbins of Cleveland City Hospital. Dr. D. Carver, EIS Officer, has surveyed a suburban apartment development and collected stool and blood specimens both from affected and non-affected units.

## (b) New Richmond (see PSU #120, 121)

Coxsackie B viruses have been identified from stools obtained from individuals involved in the New Richmond outbreak of aseptic meningitis. Further efforts at specific identification are underway at the Wisconsin State and the CDC Virus Diagnostic Laboratories.

### (c) Waupaca

Dr. Kenneth Wilcox, EIS Officer, and Bernice Brynelson, RN, Wisconsin State Health Department, have reported preliminary observations on the outbreak of minor febrile illness and exanthem which occurred during late July and early August in Waupaca, Wisconsin.

The typical clinical picture was characterized by fever, headache, and periorbital pain. Sore throats which occurred were mild and consisted of a rough feeling upon swallowing. A few patients complained of tenderness of the throat upon pressure. Back and neck stiffness was recorded but was not severe enough to warrant lumbar puncture; the diagnosis of aseptic meningitis was therefore left in doubt. The average duration of illness was 4-5 days.

Rash occurred in 20 patients. It could easily be distinguished from the rash of rubella which was present in a few families of the community concurrently. The rash began as discrete bright red macules varying in size from 1 to 5 mm. Later the macules became larger, darker, and tended to coalesce to a minor degree. Frequently they became slightly raised. There were no complaints of itching or desquamation. The rash usually began on the face and spread to the arms and upper trunk, although it also was present to a lesser degree on the legs and lower trunk. The rash persisted longest on the face.

A total of 68 cases was investigated. The number of cases by date of onset and the age distribution of total cases and of cases with rash are listed below.

# Number of Cases by Week of Onset Waupaca, Wisconsin

9 virus 🐣	Week Ending	11000 0107/21 107	/28 8/4 8	8/11 8/18	
epitelined conservative	Number of Cases	ximetely six new viquals have b⇒e	ukee. Aproo	tinues in Milwa 29: bm.3	con
. diles lo s	ierel, Commissioner	y Dr. B. E. Krumb.	cases made he	istos lo ademi	dee

indicates that 10,000 people have been afflicted. ECHO viruses are being isolated from approximately 90% of the cases. Indoresory studies are being

jointly undertaken by Dr. &. Japin of Cimcinnati Children's Toscital and

## Age Distribution Waupaca, Wisconsin

Age Group	Total Cases	Cases with Rash
0-4	10	7
5-9	20	9
10-14	15	3
15-29	3	1
30-44	16	0
45	4	0
Total	68	20

It may be noted that most cases occurred in children under 15 years of age with a secondary increase in cases in the 30-45 age group. With only one exception all those with rash were less than 15 years of age.

Because of the mild clinical illness routine laboratory studies usually were not done on these cases, and no lumbar punctures were done. Seven stools have been submitted for viral studies, and blood specimens have been obtained from eleven cases.

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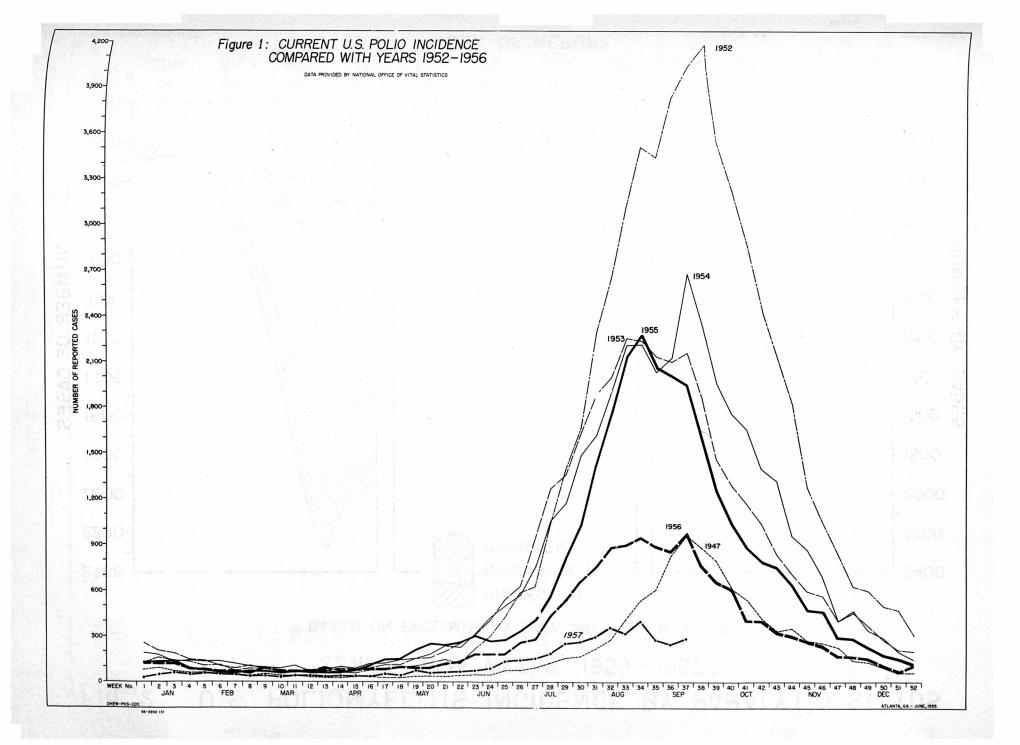


Fig. 2: U.S. POLIOMYELITIS INCIDENCE BY PARALYTIC STATUS 22 nd - 37 th WEEKS, 1955 - 1957\*

\* BASED ON PRELIMINARY DATA PROVIDED BY NOVS

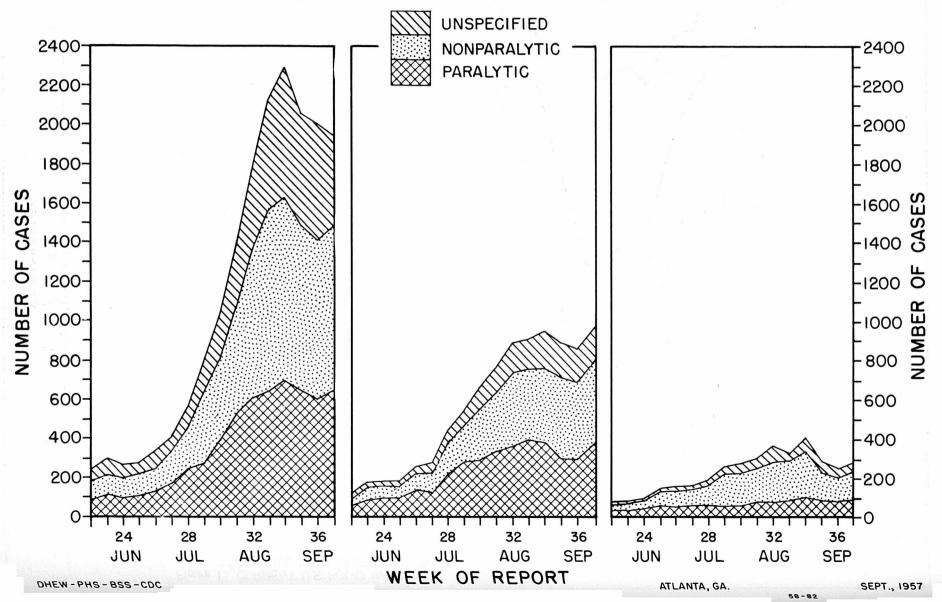


Table 1
TREND OF 1957 POLICEYELITIS INCIDENCE

State and	(	Cases for	-	ted to		S*	Six Week		parab k Tota	le Six als in:	esmid : bara
Region	3-10	8-17				-14	Total	1956	1955		1953
UNITED STATES Paralytic Monparalytic Unspecified Total	70 205 81 356	81 190 48 319	95 233 69 397	77 144 55 276	73 124 47 244	90 148 144 282	486 1044 344 1874	2085 2341 1012 5438	3819 5097 3302 12218	13150	1287
NORTH BAST Paralytic Total	3 16	_ 114	10 41	9 <b>3</b> 9	5 28	12 26	39 164	149 540	1444 4885	2249	271
Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut New York New Jersey Pennsylvania	- 1 - 7 5 2	1553	2 - 1 - 3 22 8 5	- 1 - 6 19 8 4	1 1 1 - 3 12 9	- 6 - 2 14 4	3 2 2 9 15 79 39 15	7 1 2 43 3 42 285 106 51	95 140 65 2097 186 347 1292 323 340	54 37 27 436 54 125 722 278 516	16/ 21/ 21/ 13/ 13/ 117/ 32/ 50/
NORTH CENTRAL Paralytic Total	24 182	36 167	28 192	22 143	22 115	42 142	174 941	931 2704	1235 4402	4990	581:
Ohio Indiana Illinois Michigan Wisconsin Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	30 8 25 40 28 6 6 10 2 18 3 6	17 19 20 47 32 2 8 10 - 4 35	29 17 42 53 25 - 9 5 - 2 3 8	16 6 31 47 20 1 2 11 3 2	10 14 32 25 16 4 7 8	13 26 25 43 12 2 10 1	115 80 175 255 133 15 41 45 5 31 20 26	260 170 895 309 243 102 356 192 8 12 68	619 180 686 571 1382 319 271 114 24 22 103 111	899 304 907 846 237 300 584 259 49 42 318 245	111: 29: 94: 30: 110: 27: 32: 9: 8: 7: 20:
MORTH WEST Paralytic Total	2 5	1 3	6	2 2	3 6	<b>-</b> 3	11 <sub>4</sub> 27	62 <b>1</b> 87	194 380	398	38:
Montana Wyoming Idaho Washington Oregon	3/	1 1 1	1 1 1 4	2	1 1 2 1	- - -3 -	5 3 9 7 3	10 13 43 82 39	57 15 49 153 106	41 96 43 115 103	99 14 14 10

<sup>\*</sup> National Office of Vital Statistics.

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Table I (Continued)

State and	urji. Savi		Repor Jeek		to NOV	IS*		ix Jeek			le Six	edsal • has
Region	8-10				9-7	9-14		otal	1956	1955	1954	
SOUTH EAST												
Paralytic Total	19 66	20 59	32 61	19 36	21 36	16 42		127 300	283 673	404 1131	2121	170
Delaware Maryland Dist. of Col. Virginia West Virginia North Carolina South Carolina Georgia Florida Kentucky Tennessee	2 1 1 25 6 4 8 6 6	7 2 2 2 2 4 6 7 7 7	2 7 11 1 12 1 7 7 6	6 3 2 6 1 2 1 7 8	751532733	1644552644		2 34 29 11 75 20 23 27 34 34	12 18 5 102 44 131 43 87 88 61	16 108 19 121 78 188 110 70 93 181	16 83 37 223 150 297 90 279 316 324 197	17 22 29 192 24 15 11 17 10 17
Alabama SOUTH CENTRAL Paralytic Total	12 43	12 40	2 11 51	15 32	16 36	8 27		7 74 229	31 351 678	54 271 761	109	828
Mississippi Arkansas Louisiana Oklahoma Texas	3 4 9 7 20	5 3 6 5 21	4 2 6 9 30	1 12 2 16	2 3 8 22	1 6 2 17		16 12 42 33 126	98 75 177 70 258	39 64 79 92 487	141 92 125 174 900	83 101 90 172 382
SOUTH WEST Paralytic Total	10 144	12 36	8 44	10 24	6 23	12 42		58 213	309 654	271 672	1960	1433
Colorado New Mexico Arizona Utah Nevada California	3 5 3 -	6 2 - 28	2 - 1 - 41	1 1 1 20	2 2 3	7 1 - 34	0 7 4 5 W W W	15 15 7 4 -	65 32 28 68 9 452	87 45 40 19 12 469	166 96 63 86 47 1502	72 31 169 63 11 1091
TERRITORIES	3	4	1		6	:\ -	i U	1/4	् 15	34	Parely Istel	
Alaska Hawaii Puerto Rico	o. <b>−</b> €. <b>−</b> €. <b>3</b>	- - 4	- - 1	-	1 1 2 1	5	I I	1 2 12	3 -7 -6	28 24 3	104 17	2

<sup>\*</sup> National Office of Vital Statistics.

Table 2

1957 PARALYTIC POLIOMYELITIS CASES FOLLOWING THREE INOCULATIONS OF VACCINE
(Reports September 12 thru September 18, 1957)

40	32 40			***							
3 V Case		(Figure 91% re	Ini-			Date 1st	Cerebro- Spinal	Site of	Dates of Vacc.	<u>.</u>	j.
No.	State	County	tials	Age	Sex	Symp.	Fluid	Para.	Inoc.	Mfr.	Lot No.
79	Nebraska	Saunders	CF	19	M	7-7-57	137	Neck	6-20-56 7-26-56	PM PM	175075B 175074A
96	Com	ment: Poliovirus revealed							5-5-57 en. Convelescer sly listed in Pa		
87 33	Vermont Com	Windsor ment: Very slig extensors	MAM ht weakne	27 ess in	F righ	7-6-57 t hip	44 Polys 143 Prot. 2510 RBC	RL	Nov '55 3-1-57 3-13-57	? L L	? ? ?
88	Illinois	Cass (Preliminary R	3.4 L. Tarana	8	F	8-16-57	apedimen taken	Erin veder g	3	?	?
	) jepterke	Kimball		11				. 5	? 6-57	3	?
89	Illinois	Cook (Preliminary R	JT eport)	17	F	7-21-57		?	?	?	?
93	Illinois	Mollenny	04	TE	N.	0-71-21			2-23-57	?	?
90	Illinois	Cook (Preliminary R	WB eport)	7	М	7-20-57		?	?	?	?
92	Militable	Da Paga	6	J.		1:50-21			10-10-56	<b>?</b>	3
91	Illinois	Cook (Preliminary R	AZ eport)	4 <u>1</u>	<b>.</b>	8-10-57	Fluid	Site or Para.	?1956 ?1956 ?1956	?	? or not

(CONTINUED NEXT PAGE)

Table 2 (Continued)

3V Case No.	State	County	Ini- tials	Age	Sex	Date 1st Symp.	Cerebro- Spinal Fluid	Site of Para.	Dates of Vacc. Inoc.	Mfr.	Lot No.
92	Illinois	Du Page (Preliminary	SS Report)	14	F	7-29-57		?	?	?	?
	TITLECTS	(bug)				1-50-14		100	?	?	?
93	Illinois	McHenry (Preliminary	GA Report)	15	М	8-17-57		?	?	?	? ?
									?	?	?
94	Nebraska	Kimball	KH	<b>1</b> 4*	M	6-23-57		?	?	?	? ? ?
	Comm	ent: Coxsacki	e B-5 has	been	isolat	ed from a	specimen taker	from this pa	tient.	<b>f</b> <sub>0</sub>	•
95	Nebraska	Kimball (Preliminary	SB Report)	5	<b>M</b> <sub>(1,23)</sub>	7-11-57		<b>?</b>	? ? ?	? ?	? ? ?
										?	6 <b>3</b> 0 . 124.
96	Nebraska	Lancaster (Preliminary	KM Report)	28	F	8-3-57		?	?	?	?
		grangeur							<b>?</b> - 53-63	?	? Leoleb
97 	Tennessee	Shelby (Preliminary		2	М	8-9-57		?	? ?	? ?	? 7 0 0 MC ? ?
98	N. J.	Bergen	NFB	5 no.a .o.4 121	M Shada	6-23-57		Neck, trunk and hip muscles	6-2-56 7-7-56 3-2-57	L L L	? ? ?
99	N. J.	Hudson	EB	5	M	7-6-57		Left arm & abdominal	6-18-5 <b>6</b> 8-6-56	?	?

Table 3
POLIOMYELITIS VACCINE REPORT through 9-13-57

(Data provided by the Polio Vaccine Activity, BSS, USPHS. Listed in 1000's of cc's of Net Bottled Vaccine)

		VAC	CINE RELEASED	)		
Period	Lilly	Parke, Davis	Pitman- Moore	<u>Wyeth</u>	Sharpe & Dohme	Cutter
July August September 1-	5,047 5,840 -13 3,080	1,843 3,704	1,239 1,339 1,314	378 394 257	1,015 864	- - -
Cumulative to date	122,663	30,133	30,841	9,623	9,377	401
_ 불로 스 1호		VACO	INE SHIPPED			
Period		NFIP	Public Agencies	Commercia Channels	Export	Total
1955		13,541	7,893	6,233	<u> </u>	27,667
1956	76	194	45,588	24,784	6,477	77,043
January-Ju July August		151 - -	36,044 4,642 4,133	23,760 4,903 4,037	6,385 327 1,099	66,970 9,871 9,269
September	FP 1		1,151	2,120	166	3,438
Cumulative T	otals	13,886	100,081	65 <b>,83</b> 6	14,456	194,259
		VACO	INE INVENTOR	Y		
	shipped by nufacturers	In State	and Local	In Commerci and Physici		
8-23-57 8-30-57 9-6-57	10,290 7,565 7,737	5,	855 004 113	3,009 2,918 3,933	}	17,153 15,487 17,783

Table 4

PSU		ng pagamaka anja ang sang nang nang nang nang nang nang	CS 157	Suspected Outbreaks - Aseptic United States 195			
Report No.	rt State	City	No. of Cases	Clinical Picture*	CSF Findings	Virus Isolation	Laboratory
123	Colo.	La <b>J</b> unta	3 Isl	H, dizziness	Pleocytosis	(1) WEE	Univ. Colorado (Dr. Kempe)
126	Conn.	Essex	200 HO	F-H-V-S	10 ty   10 ty	Coxsackie B-5	Conn.St.Health Dept.
126	Conn.	Bristol	15 0 15 0	F-H-V-S, Rash - Diarrhea	- 0	ECHO 9 Coxsackie A-9	Yale Univ.
122	Ga.	Atlanta	15	H-F-S	Pleocytosis	1 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CDC Virus Lab, (Dr. Kalter)
122	Ga.	Columbus	130 ms 1 ms	SH-F-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S-S	Pleocytosis	(1) Mumps	CDC Virus Lab, (Dr. Kalter)
126	Kansas	Wichita	(2)		AVG. 733	ECHO 9 (5) Coxsackie A-9 Coxsackie B-5	Kansas St. Board of Health (Dr. Hunter)
121	Mich.	Throughout State	Sporadic Cases 2		Ç.	(2) ECHO 9 (8) Coxsackie I	Univ. of Michigan B4 (Dr. Brown)
122, 125	Minn.	Throughout State	ops,or	S-H-V-F-E, morbilli- form rash.	20-1500 Lymphocytes Predominately	(5) Coxsackie I	3-5 Minn. Dept. of Health (Dr.Bauer)
119	N.C.	Durham	8-30-21 8-30-21 8-53-21	H-S-F-V, myalgia	100-1000 Predominately Lymphocytes	Coxsackie B-5 (13 Cases) Coxsackie A9 (1 Case)	Univ.N.C.(Dr. Curnen

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Table 4 (Continued)

PSU			W O		0.07	***	
Repo:	State	City	No. of Cases	Clinical Picture	CSF Findings	Vi <b>ru</b> s Isolation	Laboratory
123	N.Cak.	Garrison	11	Slight disorientation	8-12 Cells		N.Dak. State Health Dept (Dr. M. Kooms) Rocky Mt. Lab USPHS (Dr. C. Ekland)
121	Ohio	Athens	7			Coxsackie	Ohio St. Health Dept. (Dr. Ande <b>r</b> son)
121	Ohio	Norwood	<b>5</b> - А. – Ашитерия (13)	H-F-S, Rash	Pleocytosis	ECHO Type 9 (CSF)	Dr. Sabin, Children's Hospital, Cincinnati Ohio
121	Ohio	Willard	100	H-F-V-S, / macular rash	Pleocytosis	ЕСНО 9	(Dr. Robbins Cleveland, Ohio)
116 117	Tenn.	Johnson City	54 Hospitalized, 51 Contacts 170 Community	H-F-S-E, varied from mild to severe toxic encephalitis symptoms	Pleocytosis 15-400		Tenn.St.Health Dept (Dr. J.H. Barrick) and CDC Virus Lab, (Dr. Kalter)
155	Tenn.	Camden	80 - 200	H-F-V-S-	uniyetiy Securi	- James (call)	Tenn.St.Health Dept Lab (Mr. Barrick)
123 787 780	Utah	Ogden	20	Aseptic meningitis			Utah State Health Dept. (Mr. R. S. Fraser)
119	Va.	Pennisular Area	65	H-F-V-S	200-300 Predominately Lymphocytes		CEOUGLOSS

(CONTINUED NEXT PAGE)

Table 4 (Continued)

PSU Report	; State	hrea Area	No. of Cases	Clinical Picture*	CSF Findings	Virus Isolation	Laboratory
121	Wisc.	New Richmond	97	H-F-V-S-E	250-1300 one - 16,000	Coxsackie B	Wisc. St. Health Dept.(Dr. Stoball) CDC Virus Lab (Dr. Kalter)
122	Wisc.	Milwaukee	138 Hospita- lized, esti- mated 10,000 Community	Sudden onset, H-V, rash over face and trunk	300-1000 Lymphocytes	ECHO 9 (CSF)	Dr. Sabin Children's Hospital, Cincinnati Ohio. Dr. F. Robbins Cleveland City Hosp.
121	Wisc.	Waupaca	68 Moseitali 51 Contacts	ming so severe forto	Pleocytoric 15.400		Wisc. State Health Dept. (Dr. Stoball)
LEI	Ono	Alfland	100	H-F-V-S, function	SjelcArcera	ndiko y	(Dr. Oblum Cloveland, Ohlo)
* H -	headach	e, F - feve	r, V - vomiting	g, S - stiff neck, E - eye p	pain.	well of the average over the following the paper, see the second	COTO
TST	Obio	Vervood	5	H-E-E, Roch	- Plecoytoska		Dr. Sabin Children's Fosyttal Chedunati
TST With the second	Ohio	Athens	4.1		The first contact on any contact of Management of the participate of many and	Coxespila	Olio Se. Mealth T. Espt. (Fr. Anderson
753		Carriach goog-	11	Slight disoriertation		School Vertrette State of Stat	Decky Mt. Lab Works Cocky Mt. Lab WORKS (Lr. C. Falsou)

